CALFED Bay-Delta Program Project Information Form

Watershed Program - Full Proposal Cover Sheet

Attach to the cover of full proposal. All applicants must fill out this Information Form for their proposal. Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.

1. Full Proposal Title: Pit River Watershed Alliance Watershed Management Program
   Concept Proposal Title/Number: Pit River Watershed Alliance
   1. Pit River Watershed Alliance Monitoring and GIS Program
   2. Pit River Watershed Assessment and Capacity Building
   3. Juniper Removal in Riparian Areas
   4. Warner Mountain Rangeland Improvements

   Central Modoc Resource Conservation District

   1. Upper Pit River Watershed Enhancement and Protection Project

Applicant: Pit River Watershed Alliance
Applicant Name: Mark Steffek
Applicant Mailing Address: 806 West 12th Street Alturas CA 96101
Applicant Telephone: (530) 233-8868 Applicant Fax: (530) 233-8869 Applicant Email: mark.steffek@ca.usda.gov
Fiscal Agent Name (if different from above): North Cal-Neva Resource Conservation and Development Council, Inc.
Fiscal Agent Mailing Address: 806 West 12th Street Alturas CA 96101
Fiscal Agent Telephone: (530) 233-8868 Fiscal Agent Fax: Fiscal Agent Email: mark.steffek@ca.usda.gov

2. Type of Project: Indicate the primary topic for which you are applying (check only one)

_____Assessment	_____Monitoring
_____Capacity Building	_____Outreach
_____Education	__X _Planning
_____Implementation	_____Research

3. Type of Applicant:

_____Academic Institution/University	__X _Non-Profit
_____Federal Agency	_____Private party
_____Joint Venture	_____State Agency
_____Local Government	_____Tribe or Tribal Government

4. Location (including County):
   Pit River watershed is 2 million acres in size situated within the political boundaries of Modoc, Lassen, Shasta and Siskiyou counties in northeastern California.

   What major watershed is the project primarily located in:
   _____Klamath River (Coast and Cascade Ranges)
   __X _Sacramento River (Coast, Cascade and Sierra Ranges)
   _____San Joaquin River (Coast and Sierra Ranges)
   _____Bay-Delta (Coast and Sierra Ranges)
   _____Southern CA (Coast and Sierra Ranges)

_____Tulare Basin (Coast, Sierra and Tehachapi Ranges)

5. Amount of funding requested: $1,649,838.00
   Cost share/in-kind partners? ___X__Yes _____No
   Identify partners and amount contributed by each:

USFS Modoc National Forest	$17,200.00
BLM-Alturas	5,000.00
USDA Natural Resources Conservation Service	10,000.00
Public Land Range Permittees	15,000.00
Modoc Office of Education	2,602.00
Water Quality Control Board	27,500.00
North Cal-Neva RC & D	1,480.00
California University Extension	2,500.00
Central Modoc Resource Conservation District	45,500.00
	$126,782.00

6. Have you received funding from CALFED before? _____Yes _X_No
   If yes, identify project title and source of funds:

By signing below, the applicant declares the following:

1. The truthfulness of all representations in their proposal
2. The individual signing this form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or an organization)
3. The person submitting the application has read and understood the conflict of interest and confidentiality discussion in the Watershed Program Proposal Solicitation Package and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent provided in the Proposal Solicitation Package.

Terry Williams, Chairman
Printed name of applicant

_____Date
Signature of applicant

Pit River Watershed Alliance Watershed Management Program

CALFED Proposal

1. PROJECT DESCRIPTION

The Pit River Watershed Alliance (Alliance) is a volunteer grass-roots organization whose mission is to foster partnerships that achieve integrated long-term cultural, economic and environmental health of the watershed through active community participation. The Alliance is intended to be an objective, non-regulatory focus group that includes both private and public stakeholders. The Alliance has been in existence since December 6, 1999. Since that time a Memorandum of Understanding has been developed and has been signed by 8 of the 36 identified stakeholders. A Watershed Coordinator position has been funded by the California Department of Conservation. The primary function of the Coordinator is to promote the Alliance and obtain signatures from the remaining stakeholders. The California Water Quality Control Board has also funded a water quality monitoring project.

The Pit River Watershed is 2 million acres in size and is located in northeastern California (Map 1). The Pit River has its headwaters in Modoc County, starting on the west side of the Warner Mountains, and extending down to Shasta Lake. The Pit River Watershed Alliance has determined its area of interest to be from the headwaters to the community of Fall River Mills, approximately 110 river miles downstream. The water from the Pit River Watershed makes up about 20% of the water that enters the Sacramento River, and eventually the Bay-Delta area.

The Pit River Watershed Alliance is seeking funding, on behalf of its members, in the amount of $1,649,838.00 from CalFed to conduct a comprehensive watershed program. This program would have nine components, each with significant public outreach and capacity functions (Appendix 1). All would be linked via contribution to a coordinated Geographic Information System (GIS). The nine components are:

- Administration (Task 1)
- A comprehensive baseline assessment for the Pit River Watershed (Task 2)
- Geographical Information System (GIS) (Task 3)
- An expansion of the Central Modoc Resource Conservation District (CMRCD) monitoring program (Task 4)
- Pit River Watershed Alliance water quality monitoring (Task 5)
- A community based stability project of cooperative rangeland improvements in the Warner Mountains (Task 6)
- An assessment of the effects of Juniper management on riparian areas (seeps and springs) (Task 7), and
- Building capacity of the Pit River Watershed Alliance through education and outreach (Task 8).
- Reporting and Presentations (Task 9)

The cooperation among the diverse and varied partners of the Pit River Watershed Alliance is a unique opportunity to achieve agreement on a watershed scale for current conditions and trends. This partnership will accomplish all objectives and be suitably settled in a position to make decisions and implement projects based on actual existing conditions. The Pit River Watershed Alliance will follow a process utilizing real data that is presented in a manner depicting effects of one project, compared to others, on the most efficient improvements to water quality and health of the land.

ASSUMPTIONS

Currently, no comprehensive baseline assessment incorporating data from both private and public land exists for the Pit River watershed. The Alliance has identified the need for an assessment as the critical document, from which, future management decisions can be based, however, the Alliance does not presently have the financial means to do so. The assessment ($430,000) will include gathering all past and current data, including monitoring data. This should provide the baseline information necessary to do an assessment, and if not, will identify what additional data is needed. From the assessment, it is hoped that current conditions and future trends can be estimated. It is also assumed that the assessment will help identify and prioritize potential projects. All elements of the watershed such as water, soils, forest lands, agriculture, wildlife, and recreation will be considered in the assessment. Funding will be used to retain a third party experienced professional to conduct the assessment, which is expected to take 3 years, and to continue the Watershed Coordinator position for two years ($85,000).

The major contributors of watershed data, public agencies such as the United States Forest Service(USFS), Bureau of Land Management (BLM), and California Department of Fish & Game (DFG) already have their data in a GIS format or want to work toward this goal. Currently lacking data from private lands realistically needs to be incorporated into an area-wide assessment. An employee dedicated to developing a GIS in the beginning stages of the Alliance's existence will facilitate a timely assessment. In addition, some of the assessment data can be requested in a GIS format, with subsequent data being added by the GIS Technician in the future. The Alliance was deemed the official repository of such comprehensive data since it is a non-governmental entity responsible for representing all of the varied interests, yet it is not capable of fulfilling this part of its mission with its present resources.

The water quality monitoring programs ($537,898.00) will collect data at sites throughout the area of interest. These sites will be evaluated for three years. A meadow ground water monitoring project will also be conducted to collect water storage capacity and release data on functional and impaired wetlands and wet meadows. These data will eventually be used to determine priorities for wetland restoration efforts and to determine effects of restoration efforts. The GIS will be utilized to document and record monitoring and assessment data and to aid in identification of resource concerns and prioritize future project implementation.

The community based stability project ($61,350.00) will demonstrate the success of developing a community-based project for watershed management. Task 6, entitled Warner Mountain Rangeland Project, protects water quality by enhancement of both riparian and upland habitat. The primary premise is that a watershed that goes from an unsatisfactory condition to a satisfactory condition will result in increased water quality. The project has completed the necessary environmental requirements and is scheduled for implementation during the next five years. This project provides an opportunity to ranchers utilizing private and public lands to improve stream bank and riparian conditions, while at the same time contributing to the stability of their agriculturally based operation.

It is assumed that stakeholders will agree, per Alliance MOU, to support data collection for the parameters throughout the watershed. Many opportunities for substantial improvement in water quality water storage capacity, and water delivery rates exist in the watershed. Only through objective observation of watershed conditions will those opportunities be identified and prioritized. Thus, it is assumed that new, more accurate data will provide the basis for informed decision making regarding future watershed management.

EXPECTED OUTCOMES

Expected outcomes from this proposed project are: (1) Comprehensive baseline watershed assessment, (2) A GIS that will include a monitoring database, analyze data and display results, (3) A monitoring program that will provide baseline water quality data on the main stem of the Pit River and its tributaries, and data for water storage and release on selected functional and impaired wetlands and wet meadows on sites within the Central Modoc Resource Conservation District; (4) Achieve desired ecological rangeland and riparian conditions in an economical manner by providing livestock use on National Forest System lands, which is a significant element of the local economy, (5) Compile existing data and incorporate all current and new data into a watershed wide GIS which will be available for a proposed watershed analysis, (6) A paired watershed study on juniper management in seeps and spring areas and its effects on water storage and release on a watershed scale, (7) Financial support for a watershed coordinator for two years to serve the Alliance in further developing an outreach and education program, and (8) Strengthen partnerships between participating Alliance members.

TIMETABLE

This project will commence in January 2002. The timetable for the various component completions dates is: Task 1, 01-05; Task 2, 01-05; Task 3, 01-05; Task 4, 11-04; Task 5, 10-04; Task 6, 11-03; Task 7, 03-03; Task 8, 01-05.

METHODOLOGY

Task 1 The grant recipient and administrator for this project will be the North Cal-Neva Resource Conservation and Development Council, Inc. (RC&D). North Cal-Neva RC&D will work in close cooperation with four Resource Conservation Districts, the Modoc National Forest, USDA Natural Resources Conservation Service (NRCS), and the Alliance Watershed Coordinator to complete the requirements of this proposal. The North Cal-Neva RC&D will contract with the Goose Lake, Central Modoc, Pit and Fall River Resource Conservation Districts to achieve the proposed

assessment and monitoring goals of this funding request in the respective areas of the Pit River watershed that the RCD's provide leadership in locally led conservation.

Task 2 The assessment would be conducted by an experienced and competent individual or firm. They would have complete responsibility to conduct and complete the assessment according to the guidelines and strategy developed by the Pit River Watershed Alliance.

Task 3 This task involves the purchase of computer equipment and GIS software, and hiring a GIS Technician. A (GIS) would be developed for the Alliance to store monitoring data, perform analyses, and present results. Other data to be used in a comprehensive watershed analysis would also be included in the database such as base layer data, and existing and future data layers showing historic or current conditions.

Task 4 The Central Modoc Resource Conservation District will continue and expand their existing monitoring program with emphasis on ground water storage of wetlands and wet meadows. This program tracks water quality, as well as evaluation of riparian restoration and streambank protection projects. This monitoring effort is guided by the Upper Pit River Watershed Enhancement and Protection Project (UPRWEPP) Monitoring Plan developed in cooperation with a wide range of natural resource professionals and land managers. UPRWEPP's monitoring program has been in place since 1995. The River Center in Alturas will function as a teaching laboratory, and public outreach focus for watershed education, contributing to project objectives.

Task 5 In an effort to work cooperatively toward a comprehensive monitoring plan, the Central Modoc RCD and Alliance will work together on following activities:

a. Compilation of all existing monitoring data and further development of a comprehensive monitoring plan
b. Implementation of the Alliance monitoring plan on the main stem and 24 tributaries during 2002 and 2004.
c. Promote future expanded involvement of all local Resource Conservation Districts (Goose Lake, Central Modoc, Pit, Fall River).

Task 6 The Warner Mountain Rangeland Project provides for livestock grazing in a manner that protects water quality by implementation of 1) range improvements, and 2) monitoring the results of the rangeland use to ensure that the watershed is in a satisfactory ecological condition. This Task is a cooperative effort of local governments, the Modoc-Washoe Experimental Stewardship Program, Permittees, and the Modoc National Forest. The improvement projects were identified as either Priority 1, those that are essential to achieving the watershed restoration, and Priority 2, those projects that are not critical to achieve the objects but rather increase the efficiency of livestock grazing management within the grazing allotment. This proposal is a request for financial assistance to implement Priority 1 projects.

Task 7 Implementation of a paired watershed study to assess the affects on springs and seeps of juniper removal. Juniper management is a significant issue in the Upper Pit, and continued research into the ecology of this species as it relates to hydrologic factors is needed to assess the effect of various management strategies. The study would be based on well-documented hydrologic principles as described in standard references (Leopold, L. & T. Dunne. 1998. Water in Environmental Planning. W.H. Freeman, New York).

Task 8 The Pit River Watershed Alliance Coordinator position will receive continued funding from this grant, along with funding for supplies and materials to conduct an outreach and education program. The Coordinator will work closely with Alliance members, especially RCD's, to develop a high quality, color brochure. The brochure will be used at meetings where the Coordinator will explain the function of the Alliance and garner increased support. The Coordinator will also seek other sources of funding for Alliance activities (continued monitoring).

Task 9 Reports and presentations will be made by Alliance members as a team. Reports will be made quarterly over the term of the grant period, and a final report submitted. Reports will be made conventionally via surface mail. Presentations will be made to the CALFED Board at least twice, and more often if possible. Our team members from the Alliance will travel to Sacramento to make presentations of our successes.

2. QUALIFICATIONS AND READINESS TO IMPLEMENT PROPOSED PROJECT.

This Multi-Task project will be implemented by team members of the Pit River Watershed Alliance.

- **North Cal-Neva RC&D** will be responsible for overall completion of all the Tasks. Particular responsibility will be the administration, assessment, GIS program, water quality monitoring, , capacity building and reporting Tasks (1, 2, 3 5, 8 and 9).

- **Central Modoc Resource Conservation District** will be responsible for the monitoring and Juniper management Tasks (4 and 7).

- **Modoc National Forest** will be responsible for the Community Based Rangeland Improvement project (Task 6). The project environmental assessment (EA), which describes ecological conditions and appropriate livestock utilization standards, is complete. This project is ready to be implemented.

- **Natural Resources Conservation Service** will be responsible for GIS and the Alliance monitoring program (Tasks 3 and 5)

A. Qualifications and Readiness to Implement.

The North Cal-Neva Resource Conservation & Development Council, Inc., established in 1971, will be the fiscal agent for this grant. Its mission is to provide encouragement, promotion and development of economic diversity and community stability through the wise use of natural resources. Staff for project coordination (Mark Steffek and Bobbie Schiermeyer) is provided under an agreement with the USDA Natural Resources Conservation Service. The North Cal-Neva RC&D is a volunteer, grass roots, non-profit organization {501 (c) 3. The North Cal-Neva RC & D will also be responsible for grant management and administrative functions, including quarterly reports and invoicing.

The North Cal-Neva RC&D will comply with the state standard terms and conditions for contracts.

<u>Staffing and Administration</u>

- **North Cal-Neva RC&D** - Mark Steffek has served as the Project Coordinator for the North Cal-Neva RC&D since May, 1997. Prior to that, Mark worked with the USDA Natural Resources Conservation Service in Michigan and Wisconsin since 1978.

  Bobbie Schiermeyer is the Administrative Assistant for the North Cal-Neva Resource Conservation and Development Council, since July, 1999. Bobbie has extensive experience as Office Management, including 17 years of supervision, 14 years of account management including bookkeeping, payroll and budgets, and 13 years of Human Resource Administration.

- **Central Modoc Resource Conservation District (CMRCD)** is a volunteer grass roots organization that functions to provide local leadership in watershed management and serves to develop community based actions to improve the conservation of local natural and agricultural resources. Leadership of the CMRCD is provided by a volunteer Board of seven ranchers and farmers appointed by the Modoc County Board of Supervisors. Since 1965, Central Modoc RCD has provided local leadership in watershed management, serving to develop community-based actions to improve conservation of natural and agricultural resources. The CMRCD monitoring program was initiated in 1995. The district now also supports an active watershed education program and watershed restoration projects.

  Lead staff of the CMRCD-UPRWEPP program includes Watershed Coordinator Cliff Harvey BS, Zoology, MS Natural Resources Interpretation, and Education Coordinator Valerie Coe, BS, MS, Agriculture Education. The volunteer Board of Directors of CMRCD, has demonstrated their commitment to the conservation of Modoc County's agricultural and natural resources by initiating and continuing to sponsor UPRWEPP.

  Mr. Sloat, Alliance Watershed Coordinator, will be responsible for completing the capacity building component (Task 8), including outreach and the development of an information campaign for watershed management.

- **The Modoc National Forest (MNF)** is a public land area managed by the US Forest Service. The principal staff person from the MNF is Randall Sharp, Large Scale Watersheds Program Manager. Mr. Sharp will be responsible for working with grazing allotment permitees in the Warner Mountains to implement Task 6, Rangeland Improvements. Mr. Sharp is a 25-year employee with the USFS and has been involved with many successful projects ranging from geothermal development projects to watershed improvement projects. The MNF has been implementing similar projects for the past 25 years. Its organizational resources include a financial management division, contractor specialist to develop and administrate contracts, and resource specialist to complete final environmental clearance and monitoring requirements.

- **The Natural Resources Conservation Service (NRCS)** is an agency of USDA that provides technical and financial assistance to private landowners. Ann Francis is Landscape Ecologist at the Alturas NRCS Field Office and is the primary responsible party for ensuring success of GIS and Alliance monitoring tasks. Ann will assist the RC&D by handling computer equipment related tasks, forming a panel to hire the GIS Technician, and facilitating coordination with local data sources and other sources of technical support.

B. Technical Support Available

Technical support and assistance for the successful completion of these project tasks will be provided by the member agencies and businesses of the Pit River Watershed Alliance. The list includes various natural resource disciplines (forestry, botany, hydrology, engineering, soils, recreation, fisheries, water, geology, etc.) of the Resource Conservation Districts, USDA NRCS, US Forest Service, Bureau of Land Management, US Fish and Wildlife Service, California Department of Forestry and Fire Protection, California Cooperative Extension Service and Sierra Pacific Industries.

C. List of Previous Projects

North Cal-Neva RC&D

Mr. Steffek recently successfully completed two funded projects and administered funds for: Juniper Utilization and Marketing ($30,000.00, 1997); Tourism Roadside Displays ($24,500.00, 1998).

Central Modoc Resource Conservation District

Recent grant funded projects include: 1. An EPA 319h grant for watershed restoration and monitoring concluded in Oct., 2000 ($167,000); A Calif. Prop 204 grant for watershed restoration and monitoring to conclude Dec. 2002 ($500,000); A Calif. DOC watershed coordination grant to conclude in June, 2002 ($66,000). A new EPA 319h grant has been awarded for development of the River Center in Alturas, to conclude in July 2004 ($130,000). This record of management of grant funded programs demonstrates an ability to expand the role of CMRCD to include the current proposal.

Fall River Resource Conservation District (FRRCD)

FRRCD received CWA 205J funding for a watershed assessment and CWA 319h funding for monitoring and project implementation.

Modoc National Forest

The Modoc National Forest has successfully implemented numerous other projects that were funded through a specific grant program, including, Ducks Unlimited, Mule Deer Foundation, McConnell Foundation, and Rocky Mountain Elk Foundation. These projects require the same technical, clerical and professional experience that the Warner Mountain Rangeland project requires.

Natural Resources Conservation Service

The NRCS is the leader in design and implementation of watershed management programs on private lands. Programs of NRCS include Wetland Reserve Program, Wildlife Habitat Incentive Program and the Environmental Quality Incentive Program, River Basin Studies, Flood Plain Management and PL 566 Watershed Program.

3. BUDGET COST SHEET

A detailed **Budget Cost Sheet** and **Budget and Project Summary** is attached to this proposal as one of the forms required by CALFED.

Task 1 The Administrative Fee required to complete this project is 18%. This is a complex proposal that requires a complicated Administrative function. Each Task will need to be administered almost as if it was a separate project. The over all Administration responsibility will rest with the North Cal-Neva RC & D.

Task 2 Other assessments have been completed in California and elsewhere in the West at rates varying from $0.04 to $0.50/Acre, depending on watershed complexities. The Alliance has determined that the Pit River Watershed is moderately complex in land use and ownership and has a more complex drainage system (many tributaries and wetlands) compared to others. The watershed contains slightly over two million acres. The Alliance determined that $0.215/Acre cost would be fair and result in an excellent baseline assessment.

Task 3 The GIS equipment cost is based on a quote from Environmental Systems Research Institute (ESRI) for a complete hardware and software package. The wage for GIS Technician is based on a similar position in the Trinity Resource Conservation District and from others who employ GIS professionals. Match will be from USFS ($2000) use of plotter for 3 years; NRCS ($500/2 days) staff time to install computer; NRCS ($1250/5days), USFS ($250/1day), RC&D ($250/1day) staff time to hire a GIS Technician.

Task 4 The CMRCD / UPRWEPP monitoring program fund request is for $181,922.00. This funding will provide for watershed coordinator funding at $22/hr for 1,248 hours and a monitoring technician for $17/hour for 3,600 hours. Support would also be provided for the River Center Coordinator at $22.00/hour for 1,248 hours. Supplies and materials include the purchase and fuel for a used USFS vehicle, photo developing (100 roles @ $15 ea.), archival photo sheets, binders and diskettes. Matching contribution includes EPA 319h funding for public outreach and education and California Prop. 204 funding for monitoring.

Task.5 The Pit River Watershed Alliance request is for $355,976.00 to monitor 24 tributaries in years 2002-2004 and the main stem in 2003-2004. Current monitoring program covers 9 sites on the main channel of the Pit River through funding from California Water Quality Control Board. The total funding is $55,000.00 over two years (2001-2002). A match of $27,500.00 for 2002 will apply to this project. Other match includes $4800 (CMRCD River Center), USFS Lab ($3600), UPRWEPP Monitoring Program ($7800).

Task 6 The Community Based Rangeland Improvement project is a cost-effective mechanism for achieving proper livestock utilization within the identified environmental settings. The funding request for this Task is $61,350.00. The Forest Service and the Range Permittees will provide the matching funds. The budget is based upon similar projects and the site-specific conditions cost identified in the Project Environmental Assessment. The implementation of these projects is a proven method for providing for livestock use while maintaining the watershed in a satisfactory ecological condition. The inability to provide for livestock grazing on the Warner Mountain Ranger District would have a far greater adverse economic impact to the local community than the cost of the improvements.

Task 7 Riparian Juniper Study funding request is $161,420.00. The NEPA/CEQA compliance is expected to cost $10,560.00 based on other projects the Central Modoc Resource Conservation District has been involved in. Project monitoring will be done at a cost of $22.00/hour for 2,240 hours. The actual juniper removal will be done by a local logger and at a rate of $150/Acre for 250 Acres = $37,500.00.

Task 8 Capacity Building. The Watershed Coordinator's salary for the Alliance is currently $20.00/hr. The Goose Lake Coordinator's salary is $17.00/hr. Materials and supplies required for this task include travel ($0.34/mi. X 24,000 miles=$5,440.00). This Task will provide salary for 3,043 hours of service at $23.00/Hour. The requested funding for this Task is $85,000.00.

Task 9 Reporting and presentations Funding request for this task is $15,500.00. Reporting and presentations by Watershed Coordinators for the Alliance and CMRCD will be done at the rate of $23/hour for 213 hours will utilize $8,530. Technical support, supplies, medium, and travel will consume the remainder ($6,970). Travel is figured at $0.34/mile for 3,000 miles plus lodging at $60/night for 18 nights.

4. FEASIBILITY OF THE PROJECT

The Proposal contains no new approaches to watershed management. As previously described, the proposal consists of various tasks that include, watershed assessment, monitoring, data gathering and GIS implementation, outreach and capacity building, and implementation of rangeland improvements for watershed restoration. Though these activities have not been implemented on the scope and scale within the Pit River Watershed; similar activities have been completed in other watersheds, such as the Trinity River Basin and the Feather River Basin projects. All efforts for monitoring, assessments, GIS, capacity and project implementation are based on commonly accepted standards that are practiced in other watersheds throughout California. The focus of this Proposal is that the respective efforts are being implemented with community, landowner and regulatory agency active participation.

As previously stated, the Proposal is being submitted on behalf of the members of the Pit River Watershed Alliance, specifically, the Modoc NF, the CMRCD, North Cal-Neva RC&D and NRCS. These members will be responsible for the maintenance of the respective tasks in which they are the lead members. Additional funding will be necessary for those members that are primarily voluntary, such as the CMRCD. Future funding may be necessary based upon the results of the Watershed Assessment task, future monitoring requirements, and implementation and expansion of the role of GIS. Funding will be sought from CalFed; California Water Bond (Prop 13), Clean Water Act section 319h and 205j.

5. MONITORING COMPONENT EFFECT ON IMPLEMENTATION AND ADAPTIVE MANAGEMENT.

a. Performance Measures

Task 1: Administration.
- Project stay on schedule and are successfully completed
- Project stay within allotted budgets

Task 2: Pit River Watershed Baseline Assessment
- A comprehensive assessment based on all available information is completed in 3 years
- Raw data in assessment are in a form that can be integrated into the Alliance database
- Assessment identifies gaps in existing knowledge
- Assessment identifies potential problem areas that can be focuses of future restoration work
- Assessment provides necessary data for evaluating the Pit River Watershed's current listing as an "Impaired" system

Task 3: Develop GIS
- Acquire necessary computer equipment and staff to start development of Alliance's database in a GIS format
- GIS Technician develops basic structure of a relational monitoring database and enters all existing monitoring data (100%) to-date by the end of his/her two year contract
- Working either independently or coordinating with hired consultant to compile all (100%) existing data and incorporate into Alliance database by end of two year contract (GIS Technician). This includes all necessary base layers and data layers that reflect historic and current conditions

Task 4: CMRCD Monitoring Program
- Complete, accurate data sets for desired water quality & quantity parameters on Pit River main stem & tributaries
- Sampling accomplished on 100% of 21 primary tributaries and select locations on the main stem identified in CMRCD's Monitoring Plan.
- Expanded scope of monitoring to include more biological parameters such as macroinvertebrates and vegetation surveys
- Basic storage and release measuring stations set up at 20 wetlands and wet meadows

Task 5: Alliance Monitoring Program
- Complete, accurate data sets for desired water quality & quantity parameters on Pit River main stem & tributaries
- Sampling accomplished on 100% of 24 primary tributaries and 9 locations on the main stem identified in Alliance's Monitoring Plan
- Expanded scope of monitoring to include more biological parameters such as macroinvertebrates and vegetation surveys

Task 6: Community-Based Rangeland Improvements
- Desired ecological condition is achieved through implementation of prescribed management practices. Refer to Appendix D of the Environmental Assessment describes, in detail, the success criteria.

Task 7: Riparian Juniper Study
- Collect data to assess the effect of juniper removal on hydrologic factors and production of a report: "Response of springs and seeps to removal of western juniper (*Juniperus occidentalis*) at selected sites in Modoc County, California: A paired watershed analysis."

Task 8: Capacity-Building
- Watershed Coordinator continues outreach and education to Alliance partners and greater community, facilitating meetings, producing educational materials and providing assistance with Alliance monitoring program.

Task 9: Reporting and Presentations
- Reports completed on time to CALFED

- Presentation on project's results are accomplished upon request

b. Does project coordinate with/support other local efforts.

Thus far, local and regional data collection in the Pit River Watershed has been driven by management concerns of individual entities. For example, the USFS has performed extensive fish habitat surveys on headwater tributaries. BLM and USFS have performed some Proper Functioning Condition analyses on select sites. CMRCD monitors stream conditions on the lower tributaries. Similarities exist between the parameters studied. To date, there has been no effort to correlate the information. This project, proposed by the Alliance attempts to bridge the gap between participating public and private entities, and includes a watershed wide monitoring plan and compilation of a comprehensive database. Through the Alliance's monitoring committee (with representatives from most Alliance participants), a basic set of monitoring parameters will be developed that satisfies local monitoring goals, is consistent with previous efforts, as well as, regional and statewide standards. The proposed project will provide data required for Clean Water Act (CWA) compliance, and will provide direction for future restoration activities. These data are also necessary for a watershed assessment.

The proposed continuation of the CMRCD-Upper Pit River Watershed Enhancement and Protection Project (UPRWEPP) Monitoring Plan will add a level of observation necessary for a full watershed assessment in addition to collection of data that is compatible with the Alliance plan. Through a focus on wetland and wet-meadow water storage and release rates, it is expected that development of this data set for CMRCD will provide a basis for similar future work throughout the watershed.

Although the proposed juniper management study and rangeland improvement project are not contributing to "monitoring data" to local efforts in the sense of water quality and quantity sampling, they should provide locally-needed information for evaluating the success of different management techniques. These projects will be "monitored" or evaluated as experiments and the data collected will complement the monitoring efforts.

c. Provide a description of any citizen monitoring programs that will be a part of this project.

The River Center will, as part of its mission, be a teaching laboratory, education center, and public outreach focus for monitoring efforts. The River Center will also be one data collection site, and serve as a training facility for local landowners' monitoring efforts. Through classroom presentations, workshops, field activities, and public events, the value of learning about our local watershed will be taught and citizen participation encouraged. Ultimately, it is hoped that landowners' experience with monitoring standards and protocols, and commitment to this task is such that they are qualified to provide data, augmenting our local resources for completing this work. Regardless of the uncertain future of citizen monitoring efforts in this area, the knowledge essential to good watershed stewardship will be made available to all members of the community.

d. What monitoring protocols will be used, and are they widely acceptable as standard protocols.

In terms of water quality & quantity monitoring, the monitoring protocols proposed are adapted to local watershed conditions, and based on standard lists of parameters commonly used by the U.S. EPA (national standards) and the California Water Quality Control Board. Those data include:

Main stem data: flow, temperature, condition/ pathogens, dissolved O_2, pH, conductivity, metals, pesticides, standard minerals, macroin-vertebrates, turbidity, suspended sediment, settleable solids

Tributary data: temperature, stream habitat nutrients, suitability, macroinvertebrates, photo docu-mentation, flow.

Monitoring sites were selected in consultation with the Alliance's Monitoring Committee. Methods are based on common stream observation practices as developed by various federal and state agencies, especially USFS and UC Davis Cooperative Extension. The CMRCD-UPRWEPP Monitoring Plan precedes the Alliance's plan, but provides for collection of congruent data.

The additional data collected by CMRCD on wetland water storage and release rates will be collected using commonly accepted methods as described in standard reference texts. Year-round spring and seep outputs will be observed before, during and after juniper removal at a selected sub-watershed comprising approximately 100 to 200 acres of treatment. Similar observations will be recorded at a paired watershed. All observations will be collected by professional natural resource specialists or trained technicians under the specialists' supervision. Research design and implementation will be conducted according to commonly practiced hydrologic study methods as detailed in standard reference texts (see bibliography in question #8).

For the Rangeland Improvement Project, the desired conditions identified in the Modoc National Forest Land & Resource Management Plan and in the EA (Appendix D) will be the standards, by which the project is evaluated. The "monitoring" plan describes location, timing, protocol, responsibilities, and reporting requirements. The plan also describes how changes in management activities may occur in response to the specific monitoring results.

e. Describe how the type and manner of data collection and analysis will be useful for informing local decision making.

With this proposal, we wish to ensure collection of annual stream monitoring data on the commonly accepted physical and biological indicators, and completion of a comprehensive watershed assessment for the Pit River Watershed. Applying standard protocols to data collection on the variables of interest will provide managers and landowners with vital information for determining baseline conditions and estimating future trends. Not only is this information practical on a day-to-day basis for making sound management decisions, but it is also valuable in light of the Pit River's listing as an "impaired" river. Lack of significant data to support the listing leaves many unsure whether it is accurately depicts current conditions.

Comprehensive monitoring and assessment data should provide Alliance members with useful insight for managing lands in the watershed, stimulate discussion of possible causes, effects and interactions, and provide background information necessary for enacting informed watershed management policies by local, state and federal agencies, and private landowners and managers who live in the watershed. The practice of adaptive management requires that information-gathering is on-going and so an organized forum is appropriate for sharing results. The way the data affect local decision-making will depend on the situation but Alliance members will strive to achieve a reputation in the community for engaging in objective, science-based studies and monitoring, and establish that the Alliance provides the non-regulatory, open, discussion forum as originally intended. One of the Alliance's goals is that more landowners voluntarily adopt practices and restoration projects geared toward sustainable resource use. Studies such as those proposed herein for juniper/hydrology interactions and the Rangeland Improvement Project provide opportunities to test current theories, and adapt management strategies as new information is obtained.

Done cooperatively, a comprehensive monitoring and assessment of the Pit River Watershed based on sound science, that covers the entire region thoroughly over time should lend credibility to itself, and would have the potential to be very useful in local decision-making. This is equally true for successful implementation of restoration projects. GIS provides very powerful tools for presenting abundant technical information on a single map. When messages can be communicated effectively, it can affect decisions that are made. In the same way, ensuring the Alliance has a watershed coordinator position would help to ensure that the Alliance reaches the public, and would be another way the activities proposed herein potentially affect local decision-making. The philosophy of adaptive management can be thought of as a creative process that can be practiced in all aspects of the Pit River Watershed Program Proposal, from scientific studies to developing the capacity of an organization. The idea being, to try things, observe the results, and adapt the techniques when information on better methods becomes available.

6. SCIENTIFIC BASIS FOR ACTIONS

a. There have been numerous watershed assessments that were completed by various landowners and agencies on their respective ownerships. This Proposal is focused on aggregating that work and additional information into a comprehensive assessment that is all-inclusive regardless of ownership or jurisdiction. In this proposal, the only specific watershed conservation action is Task 6, which is the Warner Mountain Rangeland Improvement project.

b. The Warner Mountain Rangeland Improvement project is based upon an evaluation of the watershed condition on National Forest System lands described in the Modoc National Forest Land and Resource Management Plan (Forest Plan) and the project specific Environmental Assessment (EA), which is attached to this Proposal. The Forest Plan describes the Desired Ecological Condition (Goals and Objectives) for the watershed, with emphasis being placed upon riparian condition. The EA identified the current condition of the watershed and identified management practices that will achieve the Desired Ecological Condition described in the Forest Plan.

c. The scientific assumptions for the goals and objectives of the Warner Mountain Rangeland Improvement project are contained in the Forest Plan and the project EA. Specifically, Appendix T of the Forest Plan describes the basis for classification of streams and establishment of standard and guidelines for all management actions within the riparian areas. The site specific EA contains a detailed description the basis for establishment of the desired ecological condition. The fundamental assumption in the project is that a properly functioning watershed, as described by geomorphology, vegetation, and soil characteristics will result in increased water quality and quantity in comparison to that of an improperly functioning watershed.

d. The Warner Mountain Rangeland Improvement project is consistent with the objectives and goals of the Forest Plan. The monitoring will ensure that the implementation of the project will achieve those goals and objective.

e. An extensive inventory of the current condition of the riparian area, seeps, springs, streams, and upland vegetation was conducted as part of the analysis for the EA. This information was documented in the planning records of the project. The results of this inventory are summarized in the EA.

b. Scientific assumptions

Science based results of the assessment and monitoring program will result in strategies to remove the Pit River from the Impaired List 303d or to make necessary enhancements to get it removed from the list.

c. Consistency of proposed actions with scientific assumptions.

The Upper Pit and Lower Pit River stretches are listed on the California Unified Watershed Assessment as being impaired. The scientific assumptions, or proof for this listing, are weak or non-existent. Components of this project, Tasks 2, 4, 5 and 6, will serve as the scientific evidence to continue the listing, or to have the Pit River removed from the list.

d. Baseline knowledge used to support management actions.

The Pit River Watershed Alliance formed, in part, due to the recognized lack of a comprehensive watershed assessment and complete data system for defining project goals and information available to respond to the Pit River's listing as impaired. Monitoring efforts by the Resource Conservation Districts and federal agencies (USFS and BLM) are being conducted, but not available in a readily retrievable form.

7. MULTIPLE CALFED OBJECTIVES MET

a. The proposed actions would contribute to the CALFED goals of ecosystem quality, water supply, and water quality through:

1. Comprehensive assessment and identification of stresses in the Pit River watershed, which in turn will inform local as well as regional decision-making on how best to alleviate those stresses.
2. The Alliance and CMRCD working together and taking the lead on monitoring results in greater efficiency due to coordinated data collection.
3. Information gathered from monitoring and results of other studies can then be made available to the public, improving awareness of watershed conditions through outreach programs. Such awareness is an essential first step to improving stewardship practices in the community.

This program will also meet the CALFED Watershed Program goals and objectives of :

1. Facilitate and improve coordination, collaboration and assistance among government agencies, other organizations and local watershed groups.

This project will strengthen relationship of diverse stakeholders in the Pit River Watershed Alliance. Task 1, Assessment will provide everybody with the same tool to make decisions on a watershed scale, and on lands under their control, in regards to project implementation for enhancement opportunities identified. Task 4, CMRCD/UPRWEPP monitoring program, will demonstrate how an individual Resource Conservation District can assist private landowner cooperators within their District, while at the same time, meeting the goals of CALFED and the Alliance. Task 6 will demonstrate a similar capability between a public land management agency (Modoc National Forest) and ranchers with grazing allotments. Task 7, Riparian Juniper Study, will provide quantification of the assumption that juniper trees (*Juniperus occidentalis*) dry up springs and seeps. Task 8, Capacity Building, is the main Task that will provide the majority of cooperation among the Alliance stakeholders. A full time Watershed Coordinator, properly trained and experienced, will facilitate the Alliance meetings and activities to ensure: i) all members participate, ii) express concerns and ideas for solutions, iii) completion of the Tasks of this program, and iv) coordination of all other watershed activities,

2. Develop a watershed monitoring and assessment protocol

The Tasks of this program will be assessed by the stakeholders in the Pit River Watershed Alliance. The assessment strategy, Task 1, will be developed by the Alliance. The responsible party for the assessment will provide reports to the Alliance on a two-month interval. Alliance members will provide guidance and constructive feedback to the assessment team to keep our goals on track. The current Alliance membership is made up of non-government organizations representing private landowners, environmental organizations, and local, state and federal government agencies and units of government. Oversight for the monitoring Tasks (4 and 5) will likewise be provided by the Alliance and Board of Directors of the Central Modoc RCD. The development of the assessment and critical analysis of the results from the monitoring program will provide an opportunity for stakeholders to adapt their management techniques. This opportunity will also exist for state and federal regulatory agencies to modify their positions on water quality and quantity in the Pit River system.

3. Support education and outreach

The sharing and dissemination of information will be accomplished in several ways. The Capacity Building Task (8) provides extensive public outreach. It will be the Watershed Coordinator's role to attend stakeholders meetings, provide watershed education materials, and updates on Alliance activities, including the progress of this CALFED funded watershed management program. Brochures, newsletters and other materials to promote the cooperative spirit of the Alliance for watershed management concerns will be produced. Task 4, CMRCD/UPRWEPP monitoring program includes contribution to River Center.

b. Relationships between watershed processes, watershed management and goals of CalFed.

The Pit River supplies 20% of the water that flows into the Sacramento River and Bay-Delta Area. That supply of water can be delivered in an environmentally safe condition by determining water quality via a monitoring program. In conjunction with the monitoring program, a watershed assessment will guide decisions for water quality enhancement and projects. Storing water in the uplands for longer periods of time and a more timely release to downstream users will increase the water supply to the Bay-Delta area through the watershed management program in the Pit River watershed. The ecosystem of the Pit River Watershed will be enhanced by use of the assessment and monitoring data to change the trend of water quality from downward, or level, to an improving condition. The stakeholders within the Pit River Watershed Alliance will make it happen.

Continuation of CMRCD and Alliance's Monitoring Programs will provide more of the data necessary to analyze complex watershed processes. The parameters to be measured are those factors presently believed to play a role in watershed processes. Water quality and quantity data on the Pit River will help determine whether present land management techniques are sustainable or causing degradation. The goal of the Alliance is to compile and collect pertinent, scientifically defensible data for use in a manner that respects the interests of all stakeholders

Development of a GIS for the Pit River Watershed Alliance directly addresses CALFED's multiple objectives in an integrated fashion by: providing a means to incorporate a variety of data from many sources into a central database and apply powerful analytical capabilities yielding results that can help to characterize complex ecological processes. By default, a GIS involves coordination with and contributions from government agencies, watershed groups, and private individuals sharing information that can lead to large-scale plans and strategies. Refinement of data collection techniques and protocols is a natural product of on going GIS development. This project would accomplish all the above in addition to public outreach objectives and increased organizational capacity for sustaining the local effort.

There are no limits to what an experienced GIS Technician with good data can produce using GIS. GIS is known for its ability to simplify complex data. In this way, it is appropriate to the goals of CALFED in identifying both direct and indirect interactions; human-related vs. natural processes; coarse vs. fine-scale. It's power and versatility has quickly made it the industry-standard throughout the world. Notwithstanding its analytical capabilities, it is also a very effective communication tool. This project will serve to provide data from an area of the state (headwaters of the Sacramento River) in which data is both lacking, and/or whose quality is questionable. For these reasons and others, successful implementation of this project would make a significant contribution to CALFED's objectives while also contributing to more localized objectives.

c. Environmental Compliance lead agency

The lead agency for environmental compliance will be:

CEQA for all Tasks = Department of Water Resources (August, 2002)
NEPA for Task 6 = USFS Modoc National Forest (complete)
NEPA for Task 7 = Central Modoc Resource Conservation District (August, 2002)
NEPA for Tasks 2,3,4,5,8 = North Cal-Neva RC & D

Only Task 7, Riparian Juniper Study, will require NEPA/CEQA to be done. Our strategy is for our watershed Coordinator to conduct cultural resource, botanical and wildlife surveys. These surveys will be conducted from January through August, 2002.

The Environmental Assessment for Task 6, Community Based Rangeland Improvements, is complete. The sites are NEPA/CEQA certified and the project is ready to be implemented starting in September, 2002.

8. OTHER IMPORTANT ASPECTS OF THIS PROJECT PROPOSAL.

Task 6, Community Based Rangeland Improvement project will gain national attention for CALFED, as well as the Alliance, as it is part of the USFS Large Scale Watershed Program

This Project is one of a number of watershed/wetlands restoration and enhancement projects on the Modoc National Forest that are collective referred to as the Upper Pit River Watershed Restoration Project. This project is one of 15 National demonstration projects that are highlighted for their collaboration, partnerships, and watershed restoration goals. The Washington Office for the Forest Service has provided funding for the planning phases of the project. This national identified project is being "marketed" by the Forest Service as an example of how to implemented community based watershed restoration.

Bibliography

Monitoring and Assessment strategies proposed in Task 2-5 are based on principles found in standard reference texts and manuals. For example:

- *Calif. Salmonid Stream Habitat Restoration Manual*. State of Calif., Resources Agency, Dept. of Fish and Game, 3rd ed., 1998.

- Federal Interagency Stream Restoration Working Group, *Stream Corridor Restoration: Principles, Processes, and Practices*. U.S. Government publication. 1st ed., 1999.

- Monitoring Protocols to Evaluate Water Quality Effects on Grazing on Western Rangeland Streams. U.S. EPA, Reg. 10, Seattle, WA Oct. 1993.

The study proposed in Task 7 is based on typical hydrology research methodologies found in standard reference texts. For example:

- Dunne, T. and Leopold, L. *Water in Environmental Planning* W.H. Freeman and Co., New York, 1978.

PIT RIVER WATERSHED ALLIANCE WATERSHED MANAGEMENT PROGRAM

CALFED WATERSHED PROGRAM BUDGET AND PROJECT SUMMARY II

	Task Description	Completion date	Match funds	CALFED funds	Total
Task 1:	Administration:	Dec-05	$1,480.00	$251,670.00	$253,150.00
Task 1a:	Task 2 Administration			$76,400.00	$76,400.00
Task 1b:	Task 3 Administration			$18,915.00	$18,915.00
Task 1c:	Task 4 Administration			$31,746.00	$31,746.00
Task 1d:	Task 5 Administration		$650.00	$63,075.00	$63,725.00
Task 1e:	Task 6 Administration			$17,178.00	$17,178.00
Task 1f:	Task 7 Administration			$29,056.00	$29,056.00
Task 1g:	Task 8 Administration		$830.00	$15,300.00	$15,300.00
	Task Product(s): Accounting system; activity reports; schedules of actions; project oversight and record keeping.				
	Success Criteria: Tasks are kept on schedule and on budget.				
Task 2	Alliance Baseline Watershed Assessment	Jan-05	$10,000.00	$430,000.00	$440,000.00
Task 2a:	Strategy Development	Feb-02	$3,000.00		$3,000.00
Task 2b:	Contract Assessment	Apr-02		$430,000.00	$430,000.00
Task 2c:	Initiate Data Acquisition	May-02	$4,000.00		$4,000.00
Task 2d:	Assemble Info and Draft Conclusions/Recommendations	Aug-04	$3,000.00		$3,000.00
	Task Product(s): A baseline watershed assessment of the current conditions and trends of the Pit River Watershed. The final product will be 20 hard copies and one CD-ROM.				

	Success Criteria: Members of the Pit River Watershed Alliance will utilize the Baseline Watershed Assessment to identify resource data gaps and to prioritize their restoration and management efforts.				
Task 3	Implement Geographical Information System (GIS)	Dec-04	$4,500.00	$107,000.00	$111,500.00
Task 3a:	Purchase computer system	Jan-02	$2,500.00	$11,000.00	$13,500.00
Task 3b:	Hire GIS Technician	Jan-02	$2,000.00	$96,000.00	$98,000.00
	Task Product(s): GIS base layers; monitoring database; analytical methods, data entry				
	Success Criteria: Incorporation of available data; maps produced provide direction of assessment/decisions; data gaps identified.				
Task 4	CMRCD/UPRWEPP Monitoring Program	Jan-05	$10,250.00	$187,342.00	$197,592.00
Task 4b:	Implement Monitoring	Mar-05	$6,300.00	$135,356.00	$141,656.00
Task 4c:	Education/Develop Community Support	Jul-04	$5,250.00	$27,456.00	$32,706.00
	Task Product(s): Expanded scope of monitoring; 20 water storage and release measuring stations;				
	Success Criteria: Management technique for slowly releasing water downstream; River Center support				
Task 5	Alliance Monitoring Program	May-04	$40,602.00	$409,018.00	$449,620.00
Task 5a:	Monitor Tributaries (2 stations/stream)	Jan-04	$16,745.00	$167,449.00	$184,194.00
Task 5b:	Monitor Main Stem (8 stations)	May-04	$23,857.00	$238,569.00	$262,426.00
	Task Product(s): monitoring reports, new protocols				
	Success Criteria: Complete accurate data sets reflecting currently accepted standard for desired parameters.				

Task 6		Community Based Rangeland Improvements	Dec-02	$17,200.00	$61,350.00	$78,550.00
	Task 6a:	Project layout including resource surveys.	Jun-02	$5,000.00	$12,500.00	$17,500.00
	Task 6b:	Implementation of projects	Sep-02	$2,200.00	$43,850.00	$46,050.00
	Task 6c:	Monitor results of projects implemented	Nov-02	$10,000.00	$5,000.00	$15,000.00
		Task Product(s): Miles of fence line and number of water holes constructed				
		Success Criteria: Riparian areas, seeps, and springs are in satisfactory condition				
Task 7		Riparian Juniper Study	Mar-04	$200.00	$142,936.00	$142,936.00
	Task 7a:	NEPA/CEQA Permissions	Aug-02	$200.00	$10,560.00	$10,760.00
	Task 7b:	Project Monitoring	Mar-04		$60,760.00	$60,760.00
	Task 7c:	Juniper Removal	Mar-04		$37,500.00	$37,500.00
		Task Product(s): Complete and accurate study data set				
		Success Criteria: Quantification of effects of juniper removal from seeps and springs				
Task 8		Capacity Building	Jun-04	$14,000.00	$85,000.00	$99,000.00
	Task 8a:	Support Alliance Watershed Coordinator	Jul-04	$14,000.00	$70,000.00	$84,000.00
	Task 8b:	Develop Outreach and Education Program	Jan-04		$15,000.00	$15,000.00
		Task Product(s): Continue funding for Alliance Watershed Coordinator; develop outreach and education program				
		Success Criteria: Alliance continues existence as a unified force for watershed management; brochures, newsletter, citizen monitoring program established.				
Task 9		Reporting and Presentations	Jun-05	$7,500	$15,500	$23,000.00

Task 9a:	Quarterly progress reports: Progress reports on project implementation, including financial status, milestones reached, products completed, and general assessment of overall progress, including problems encountered or anticipated.	Quarterly	$1,600.00	$6,400.00	$8,000.00
Task 9b:	Draft final report: Draft report summarizing the project implementation, achievements, product deliveries, financial status. To be sent to the Contract Manager for review and comment.	Aug-05	$3,000.00	$5,000.00	$8,000.00
Task 9c:	Final report: Revised report incorporating comments from the Contract Manager and others.	Jan-05	$2,400.00	$2,100.00	$4,500.00
Task 9d:	Presentations: Deliver summary presentations to CALFED.	Jan-05	$500.00	$2,000.00	$2,500.00

Task Product(s): Quarterly and final reports. Presentations to CalFed and others.

Success Criteria: CalFed funds projects and meets their goals for the program.